

A-02-31N-14W

RECORD OF SURVEY



CROSS TIMBERS OPERATING CO. UTE INDIANS A NO. 30 SAN JUAN COUNTY, NEW MEXICO

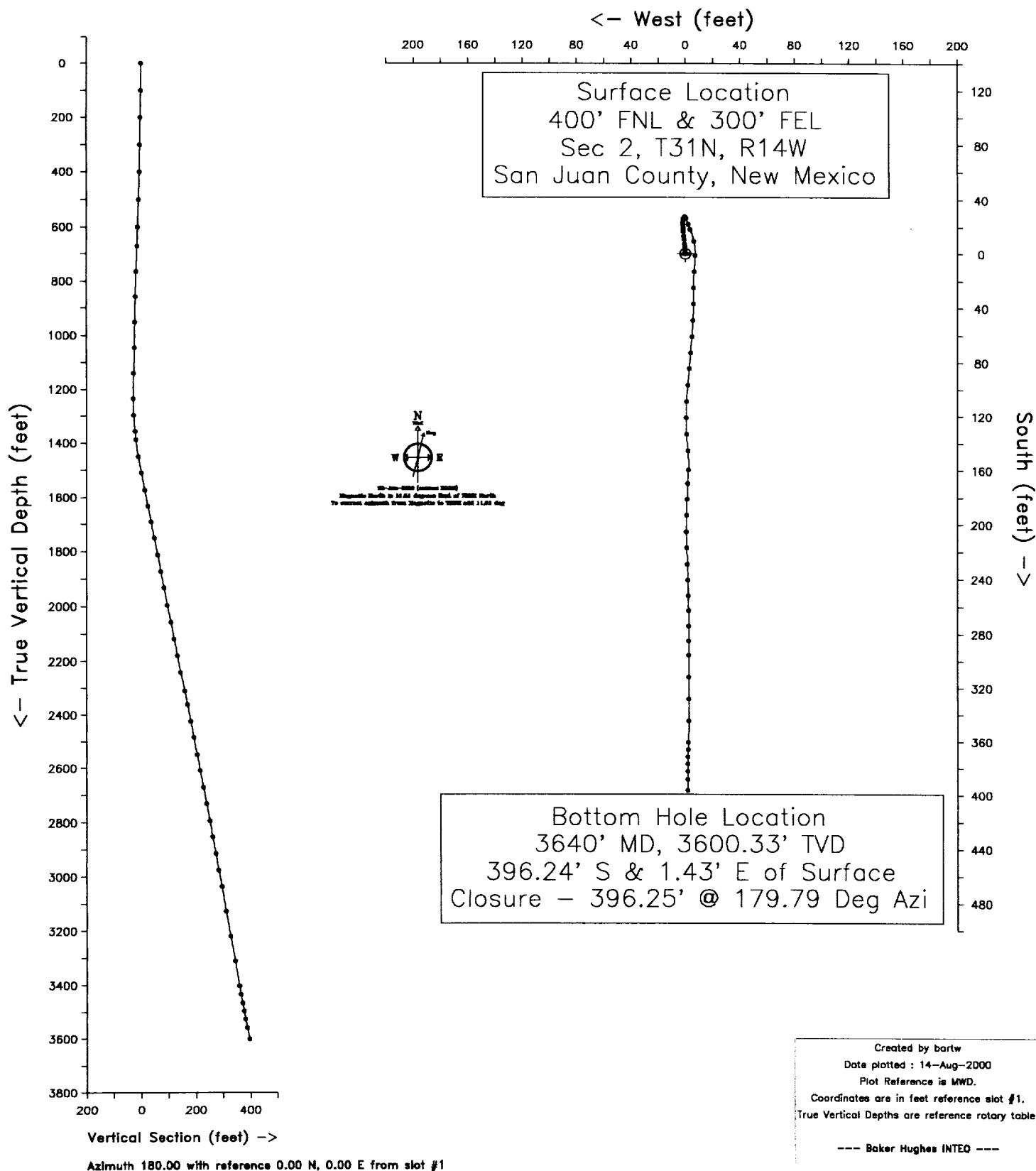
BAKER HUGHES *INTEQ*
WEST TEXAS DISTRICT



August 14, 2000



INTEQ



CROSS TIMBERS OPERATING CO.
UTE Indians "A" No.30

slot #1

SAN JUAN COUNTY, NEW MEXICO

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : MWD
Our ref : svy1436
License :

Date printed : 14-Aug-2000
Date created : 14-Aug-2000
Last revised : 14-Aug-2000

Field is centred on 0.000,0.000,999.00000,N
Structure is centred on n36 56 10.000,w108 16 13

Slot location is n36 56 10.000,w108 16 13.000
Slot Grid coordinates are N 2160303.006, E 372298.547
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico West (3003), Spheroid: Clarke - 1866
Reference North is True North

CROSS TIMBERS OPERATING CO.
UTE Indians "A" No.30,slot #1
, SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : MWD
Last revised : 14-Aug-2000

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 E	0.00	0.00
100.00	0.35	358.93	100.00	0.01 W	0.35	-0.31
200.00	0.70	357.86	200.00	0.03 W	0.35	-1.22
300.00	1.05	356.79	299.98	0.11 W	0.35	-2.75
400.00	1.40	355.72	399.96	0.25 W	0.35	-4.88
500.00	1.75	354.65	499.92	0.48 W	0.35	-7.62
600.00	2.10	353.60	599.87	0.83 W	0.35	-10.96
671.00	2.20	354.60	670.82	1.10 W	0.15	-13.61
766.00	1.70	356.20	765.76	1.37 W	0.53	-16.83
857.00	1.50	354.50	856.72	1.57 W	0.23	-19.36
951.00	1.30	358.70	950.70	1.71 W	0.24	-21.65
1046.00	1.30	2.00	1045.67	1.70 W	0.08	-23.81
1140.00	1.30	16.40	1139.65	1.36 W	0.35	-25.90
1234.00	1.10	31.00	1233.63	0.60 W	0.39	-27.69
1296.00	3.20	154.40	1295.60	0.46 E	6.31	-26.64
1358.00	6.40	159.90	1357.37	2.39 E	5.21	-21.83
1388.00	7.40	160.00	1387.16	3.63 E	3.33	-18.45
1451.00	9.90	165.20	1449.43	6.40 E	4.15	-9.40
1512.00	10.80	183.50	1509.46	7.39 E	5.56	1.38
1575.00	10.80	185.20	1571.34	6.50 E	0.51	13.15
1637.00	11.10	181.00	1632.21	5.86 E	1.37	24.90
1698.00	11.40	178.50	1692.04	5.92 E	0.94	36.80
1758.00	11.30	183.70	1750.87	5.70 E	1.71	48.59
1820.00	11.30	185.00	1811.67	4.77 E	0.41	60.71
1882.00	11.10	184.00	1872.49	3.83 E	0.45	72.71

All data is in feet unless otherwise stated.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 396.25 on azimuth 179.79 degrees from wellhead.

Vertical section is from wellhead on azimuth 180.00 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ

CROSS TIMBERS OPERATING CO.
 UTE Indians "A" No.30,slot #1
 , SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 2
 Your ref : MWD
 Last revised : 14-Aug-2000

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R C	E O	T A	N G	U L	A R	D O	g l e g	Vert Sect
1943.00	11.10	184.60	1932.35	84.42	S	2.95	E	0.19	84.42			
2007.00	11.20	185.10	1995.14	96.75	S	1.90	E	0.22	96.75			
2070.00	11.20	184.00	2056.94	108.95	S	0.93	E	0.34	108.95			
2132.00	11.40	180.90	2117.74	121.08	S	0.41	E	1.03	121.08			
2195.00	11.00	175.00	2179.54	133.30	S	0.84	E	1.93	133.30			
2258.00	11.60	175.50	2241.32	145.60	S	1.86	E	0.96	145.60			
2328.00	11.30	182.50	2309.93	159.47	S	2.11	E	2.03	159.47			
2379.00	10.80	182.20	2359.98	169.23	S	1.71	E	0.99	169.23			
2443.00	10.80	182.00	2422.85	181.22	S	1.27	E	0.06	181.22			
2505.00	11.30	182.80	2483.70	193.09	S	0.77	E	0.84	193.09			
2569.00	10.50	178.70	2546.55	205.18	S	0.60	E	1.74	205.18			
2632.00	11.30	177.80	2608.41	217.09	S	0.97	E	1.30	217.09			
2695.00	10.80	179.20	2670.24	229.16	S	1.29	E	0.90	229.16			
2757.00	10.80	177.80	2731.14	240.77	S	1.59	E	0.42	240.77			
2819.00	10.10	178.60	2792.11	252.01	S	1.95	E	1.15	252.01			
2880.00	10.10	179.00	2852.17	262.71	S	2.17	E	0.11	262.71			
2943.00	10.70	179.80	2914.13	274.08	S	2.29	E	0.98	274.08			
3004.00	9.90	180.50	2974.15	284.99	S	2.26	E	1.33	284.99			
3065.00	10.00	179.70	3034.23	295.53	S	2.24	E	0.28	295.53			
3158.00	10.10	180.70	3125.80	311.76	S	2.19	E	0.22	311.76			
3252.00	10.10	179.80	3218.35	328.24	S	2.11	E	0.17	328.24			
3345.00	9.90	179.70	3309.94	344.39	S	2.18	E	0.22	344.39			
3438.00	9.90	181.50	3401.55	360.37	S	2.02	E	0.33	360.37			
3470.00	9.70	183.10	3433.08	365.82	S	1.80	E	1.06	365.82			
3502.00	9.90	181.00	3464.62	371.26	S	1.61	E	1.28	371.26			

All data is in feet unless otherwise stated.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 396.25 on azimuth 179.79 degrees from wellhead.

Vertical section is from wellhead on azimuth 180.00 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ

CROSS TIMBERS OPERATING CO.
 UTE Indians "A" No.30,slot #1
 ,SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 3
 Your ref : MWD
 Last revised : 14-Aug-2000

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R C	E O	C O	T A	N G	U L	A T	R S	Dogleg Deg/100ft	Vert Sect
3533.00	10.20	180.70	3495.14	376.67	S	1.53	E	0.98	376.67				
3564.00	10.60	180.20	3525.63	382.26	S	1.48	E	1.32	382.26				
3596.00	10.60	180.20	3557.09	388.15	S	1.46	E	0.00	388.15				
3640.00	10.60	180.20	3600.33	396.24	S	1.43	E	0.00	396.24				

All data is in feet unless otherwise stated.
 Coordinates from slot #1 and TVD from rotary table.
 Bottom hole distance is 396.25 on azimuth 179.79 degrees from wellhead.
 Vertical section is from wellhead on azimuth 180.00 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes INTEQ